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 OCT 18 2002
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SEQUENCE LISTING

<110> Lowe, Robert S.
 Jansen, Kathrin U.
 Joyce, Joseph J.
 McClements, William L.
 Cook, James C. III
 Ling, Jessica Ching-Yee
 Nepper, Michael P.

<120> PROTEIN DELIVERY SYSTEM USING HUMAN
 PAPILLOMAVIRUS VIRUS-LIKE PARTICLES

<130> 20276P

<140> 09/762,794

<141> 2001-02-09

<150> PCT/US99/17931

<151> 1999-08-10

<150> 60/096,638

<151> 1998-08-14

<160> 16

<170> FastSEQ for Windows Version 4.0

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<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

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20

<210> 7

<211> 42

<212> DNA

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<210> 8

<211> 31

<212> DNA

<213> Artificial Sequence

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31

<210> 9

<211> 240

<212> DNA

<213> Human

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attgctgac	aaatattaca	atatgggaagt	atgggtgtat	tttttggtgg	gttaggaatt	180
ggaacagggt	cgggtacagg	cggacgcact	gggtatatc	cattgggaac	aaggcctccc	240

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<213> Human

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acatctgtac	cttccatccc	cccagatgta	tcaggattta	gtattactac	ttcaactgat	180
accacacctg	ctatattaga	tattaataat	actgttacta	ctgttactac	acataataat	240
cccactttca	ctgaccatc	tgtattgcag	cctccaacac	ctgcagaaac	tgaggggcat	300
tttacctttt	catcatccac	tattagtaca	cataattatg	aagaaattcc	tatggatata	360
tttattgtta	gcacaaaccc	taacacagta	actagtagca	caccataacc	agggctctgc	420
ccagtggtgc	gcctaggatt	atatagtcgc	acaacacaac	aagttaaagt	tgtagaccct	480
gcttttgtaa	ccactcccac	taaacttatt	acatatgata	atcctgcata	tgaagggtata	540
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cctgactttt	tggatatagt	tgctttacat	aggccagcat	taacctctag	gcgtactggc	660
attaggtaca	gtagaattgg	taataaacia	acactacgta	ctcgtagtgg	aaaatctata	720
ggtgctaagg	tacattatta	ttatgatttg	agtactattg	atcctgcaga	agaaatagaa	780
ttacaaacta	taacaccttc	tacatatact	accacttcac	atgcagcctc	acctacttct	840
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<210> 11

<211> 282

<212> DNA

<213> Human

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actgaccaag	ctccttcatt	aattcctata	gttccagggt	ctccacaata	tacaattatt	180
gctgatgcag	gtgactttta	tttacatcct	agttattaca	tgttacgaaa	acgacgtaaa	240
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<211> 465

<212> DNA
<213> Human

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attgctgata aaatattaca atatggaagt atgggtgtat tttttggtgg gttaggaatt      180
ggaacagggt cgggtacagg cggccgcgag ctcgagggtt atattcctgc aaatacaaca      240
attccttttg gtggtgcata caatattcct ttagtatcag gtcctgatat acccattaat      300
ataactgacc aagctccttc attaatcctt atagtccag ggtctccaca atatacaatt      360
attgctgatg caggtgactt ttatttacat cctagttatt acatgttacg aaaacgcagc      420
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<210> 13
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<212> PRT
<213> Human

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Gln Leu Tyr Lys Thr Cys Lys Gln Ala Gly Thr Cys Pro Pro Asp Ile
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Ile Pro Lys Val Glu Gly Lys Thr Ile Ala Asp Gln Ile Leu Gln Tyr
      35              40              45
Gly Ser Met Gly Val Phe Phe Gly Gly Leu Gly Ile Gly Thr Gly Ser
      50              55              60
Gly Thr Gly Gly Arg Glu Leu Glu Gly Tyr Ile Pro Ala Asn Thr Thr
      65              70              75              80
Ile Pro Phe Gly Gly Ala Tyr Asn Ile Pro Leu Val Ser Gly Pro Asp
      85              90              95
Ile Pro Ile Asn Ile Thr Asp Gln Ala Pro Ser Leu Ile Pro Ile Val
      100             105             110
Pro Gly Ser Pro Gln Tyr Thr Ile Ile Ala Asp Ala Gly Asp Phe Tyr
      115             120             125
Leu His Pro Ser Tyr Tyr Met Leu Arg Lys Arg Arg Lys Arg Leu Pro
      130             135             140
Tyr Phe Phe Ser Asp Val Ser Leu Ala Ala
      145             150

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<210> 14
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

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<210> 15
<211> 40
<212> DNA
<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 15

gcggccgcga gctcgagggt tatattcctg caaatacaac

40

<210> 16

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 16

gtctacagag aaaccgacgg atctctagac ctccc

35